

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/009619

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B18/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/002329 A1 (AVITALL BOAZ) 3 January 2002 (2002-01-03) paragraphs '0074!', '0075!'; figure 8	1,4
X	US 6 071 277 A (FARLEY BRIAN E ET AL) 6 June 2000 (2000-06-06) column 12, line 38 - column 13, line 8; figures 9,10	1,4
X	US 5 098 431 A (RYDELL MARK A) 24 March 1992 (1992-03-24)	28,29, 31-35, 39,46-48
A	column 3, line 28 - line 51; figure 2	1,4,7, 40,41, 45,49,60
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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PCT/US2004/009619

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 091 995 A (INGLE FRANK ET AL) 18 July 2000 (2000-07-18) column 15, line 25 - line 35; figure 13c -----	1-62
A	US 6 178 354 B1 (GIBSON CHARLES A) 23 January 2001 (2001-01-23) column 6, line 10 - line 28; figure 2 -----	41-62
A	US 5 555 618 A (WINKLER JOSEF) 17 September 1996 (1996-09-17) column 7, line 51 - column 8, line 2; figures 4a-d -----	1-62

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/009619

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002002329	A1	03-01-2002	US 6308091 B1	23-10-2001
			US 6138043 A	24-10-2000
			US 5842984 A	01-12-1998
			US 5730127 A	24-03-1998
			US 5687723 A	18-11-1997
			US 5487385 A	30-01-1996
			US 5921924 A	13-07-1999
			AU 685559 B2	22-01-1998
			AU 1265495 A	19-06-1995
			CA 2177982 A1	08-06-1995
			EP 0731665 A1	18-09-1996
			JP 3237849 B2	10-12-2001
			JP 9506017 T	17-06-1997
			WO 9515115 A1	08-06-1995
US 6071277	A	06-06-2000	US 6036687 A	14-03-2000
			AU 733465 B2	17-05-2001
			AU 2073497 A	22-09-1997
			CA 2248260 A1	12-09-1997
			EP 0921765 A1	16-06-1999
			JP 2000511787 T	12-09-2000
			WO 9732532 A1	12-09-1997
			US 6135997 A	24-10-2000
			US 2003191512 A1	09-10-2003
			US 6613045 B1	02-09-2003
			US 6033397 A	07-03-2000
			US 6139527 A	31-10-2000
			US 6638273 B1	28-10-2003
			US 6033398 A	07-03-2000
			US 6152899 A	28-11-2000
US 5098431	A	24-03-1992	CA 2037242 A1	04-01-1992
US 6091995	A	18-07-2000	AU 735863 B2	19-07-2001
			CA 2267556 A1	14-05-1998
			EP 0964652 A1	22-12-1999
			JP 2001523987 T	27-11-2001
			WO 9819613 A1	14-05-1998
			US 2003195604 A1	16-10-2003
			US 2003195593 A1	16-10-2003
			US 6772013 B1	03-08-2004
			US 2004034400 A1	19-02-2004
			US 6587731 B1	01-07-2003
			US 6546934 B1	15-04-2003
			US 2002032441 A1	14-03-2002
			AU 7000198 A	29-05-1998
US 6178354	B1	23-01-2001	CA 2351323 A1	08-06-2000
			CA 2353454 A1	08-06-2000
			DE 1133264 T1	04-07-2002
			EP 1133264 A1	19-09-2001
			EP 1135078 A1	26-09-2001
			JP 2002531164 T	24-09-2002
			JP 2002531165 T	24-09-2002
			WO 0032129 A1	08-06-2000
			WO 0032130 A1	08-06-2000
US 5555618	A	17-09-1996	US 5417208 A	23-05-1995

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/009619

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5555618	A	AU 3585195 A	03-07-1996
		EP 0782409 A1	09-07-1997
		JP 10510731 T	20-10-1998
		WO 9618339 A1	20-06-1996
		AT 147958 T	15-02-1997
		DE 69401562 D1	06-03-1997
		DE 69401562 T2	15-05-1997
		DK 647435 T3	14-07-1997
		EP 0647435 A1	12-04-1995
		ES 2098872 T3	01-05-1997
		GR 3022910 T3	30-06-1997
		JP 7222808 A	22-08-1995
		US RE35924 E	13-10-1998